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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	6 sets /100-150 cum	144.7	12	12

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-15-12** **Date: 06-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/133/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.14	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Authorized Signatory
Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-04-15-12** **Date: 01-04-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/133/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	04-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-15-12** **Date: 06-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/133/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-03-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	211	211	1.4	98.6	90-100
3	20 mm	7355	7566	50.4	49.6	30-70
4	10 mm	4219	11785	78.6	21.4	10-35
5	4.75 mm	2855	14640	97.6	2.4	0-5
6	Pan	360	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-15-12** **Date: 06-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.24	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-15-12** **Date: 06-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer Reference	:	BBMP/EE/BTP/WO/133/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-15-12** **Date: 06-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.50	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-04-15-12** **Date: 06-03-23**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/133/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-03-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-03-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-04-15-12** **Date: 06-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.23	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-04-15-12** **Date: 06-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/133/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	04-03-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-04-15-12** **Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/133/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-23
Sample Type /Size	:	Precast Cover Slab- 100mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	18/03/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.51	100.48	1.116	4718	80.9	17.1	15.9	19.9
2	Cover Slab-2	77.49	100.52	1.122	4715	82.3	17.5	16.2	20.3
3	Cover Slab-3	77.53	100.51	1.118	4720	81.5	17.3	16.1	20.1

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-04-15-12** **Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/133/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-23
Sample Type /Size	:	Precast Cover Slab- 230mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	18/03/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.52	230.38	1.156	4719	82.3	17.4	16.2	20.3
2	Cover Slab-2	77.48	230.42	1.165	4714	85.1	18.1	16.8	21.0
3	Cover Slab-3	77.50	230.51	1.189	4716	84.9	18.0	16.7	20.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-04-15-12** **Date: 24/03/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/133/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/03/2023	24/03/2023	150.49 X 150.31 X 150.73	22621	8.522	420.0	18.6	18.6
2	Drain Bottom Raft Concrete	M20	17/03/2023	24/03/2023	150.90 X 151.87 X 149.01	22918	8.293	433.1	18.9	
3	Drain Bottom Raft Concrete	M20	17/03/2023	24/03/2023	150.23 X 149.72 X 149.65	22492	8.580	411.5	18.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-04-15-12** **Date: 14/04/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/133/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	17/03/2023	14/04/2023	151.33 X 151.25 X 150.11	22889	8.633	541.9	23.7	23.1
2	Drain Bottom Raft Concrete	M20	17/03/2023	14/04/2023	150.52 X 150.19 X 150.58	22607	8.167	500.7	22.1	
3	Drain Bottom Raft Concrete	M20	17/03/2023	14/04/2023	150.27 X 149.91 X 151.03	22526	8.698	530.0	23.5	

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-15-12** **Date: 24/03/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/133/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-03-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/03/2023	24/03/2023	151.23 X 149.36 X 151.67	22587	8.791	421.8	18.7	18.4
2	Drain Bottom Raft Concrete	M20	17/03/2023	24/03/2023	150.64 X 149.40 X 149.44	22505	8.794	410.4	18.2	
3	Drain Bottom Raft Concrete	M20	17/03/2023	24/03/2023	151.94 X 150.92 X 151.67	22930	8.773	421.2	18.4	

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Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

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Agency : Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/133/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	17/03/2023	14/04/2023	149.40 X 149.97 X 149.80	22404	8.381	528.5	23.6	23.3
2	Drain Bottom Raft Concrete	M20	17/03/2023	14/04/2023	151.64 X 149.53 X 149.16	22676	8.648	514.3	22.7	
3	Drain Bottom Raft Concrete	M20	17/03/2023	14/04/2023	151.64 X 149.11 X 150.19	22610	8.279	533.6	23.6	

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Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

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Customer's Reference : BBMP/EE/BTP/WO/133/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	17/03/2023	24/03/2023	151.84 X 150.28 X 151.97	22818	8.770	417.5	18.3	18.6
2	Drain Bottom Raft Concrete	M20	17/03/2023	24/03/2023	151.85 X 150.79 X 150.73	22897	9.079	430.7	18.8	
3	Drain Bottom Raft Concrete	M20	17/03/2023	24/03/2023	149.07 X 149.81 X 151.05	22333	8.229	414.7	18.6	

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Project Name	:	Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/133/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-03-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	17/03/2023	14/04/2023	150.83 X 149.51 X 149.59	22551	8.214	524.9	23.3	23.4
2	Drain Bottom Raft Concrete	M20	17/03/2023	14/04/2023	149.95 X 151.72 X 150.42	22750	8.830	522.6	23.0	
3	Drain Bottom Raft Concrete	M20	17/03/2023	14/04/2023	150.83 X 149.25 X 151.00	22512	8.299	538.5	23.9	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-04-15-12** **Date: 27/03/2023**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/133/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	150.70 X 149.00 X 150.92	22455	8.232	412.1	18.4	18.4
2	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	150.03 X 149.80 X 151.32	22475	8.534	407.9	18.1	
3	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	149.74 X 151.24 X 149.84	22647	8.274	423.1	18.7	

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Agency : Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/133/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	151.37 X 150.63 X 151.51	22801	8.999	536.0	23.5	23.4
2	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	150.89 X 149.45 X 151.00	22551	8.722	516.7	22.9	
3	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	151.56 X 150.81 X 149.08	22857	9.090	543.2	23.8	

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Agency : Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/133/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	150.72 X 150.60 X 149.54	22698	8.586	417.1	18.4	18.2
2	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	149.18 X 149.38 X 149.20	22284	8.829	403.1	18.1	
3	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	150.89 X 149.93 X 150.63	22622	8.627	408.0	18.0	

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Customer's Reference : BBMP/EE/BTP/WO/133/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	151.33 X 149.97 X 151.51	22695	8.390	525.9	23.2	23.1
2	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	150.09 X 150.53 X 151.76	22594	8.906	506.7	22.4	
3	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	150.79 X 151.66 X 149.98	22868	8.861	542.1	23.7	

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Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)

Agency : Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032

Customer's Reference : BBMP/EE/BTP/WO/133/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	150.21 X 149.56 X 150.91	22465	8.131	418.3	18.6	18.5
2	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	151.46 X 151.90 X 151.36	23007	9.097	423.0	18.4	
3	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	150.71 X 150.11 X 150.04	22623	8.129	418.1	18.5	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

AEE (VRP) SD

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-15-12** **Date: 17/04/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Singapura Paradise and Surrounding areas in Ward No.15 (Kuvempunagara)
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat no:102, 1st Floor, No.02, MSNR, Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-560032
Customer's Reference	:	BBMP/EE/BTP/WO/133/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	151.81 X 149.60 X 151.82	22710	8.704	523.9	23.1	23.2
2	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	149.97 X 151.22 X 150.55	22678	9.091	520.5	23.0	
3	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	151.66 X 149.25 X 151.64	22635	8.273	533.6	23.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Technical Manager

****End of Report****

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